

CASE STUDY

CORUS STEEL, LLANWERN SOUTH WALES

Refurbishment of CEW machine shop



The project was a series of flat roofs totalling around 10,000m², with a considerable amount of detail, over a working machine shop in a heavily industrialised area.

The client had an urgent need to make the roof watertight as there were people and machinery below, which were at risk.

The roofing system needed to be flame free, be resistant to airborne pollutants, and be a proven cost efficient, long term, solution which would be sufficiently robust to withstand any of the inherent problems associated with heavy industrial areas.

The original waterproofing needed to be completely stripped back and a new recovery board installed with SpectraPlan SM 120 Light Grey mechanically fixed over the top.

Spectraplan SM is a polyester scrim reinforced TPE membrane suitable for mechanically fixing to flat or sloping roofs. During the production process two identical layers of TPE are laminated to and through a polyester scrim reinforcement, resulting in very high mechanical properties.

The homogeneous polymer sheets are fused together during fabrication of the finished membrane, completely encasing the polyester reinforcement. In addition, the edges of the sheets are

Project Sector: Industrial

System: SpectraPlan mechanically fixed

Products Used: SM120

25mm recovery board

Contractor: Avon Sheeting & Cladding

Started: April 2006

Completed: Ongoing

Size: 10,000m²

Contact: Dave Embery

formed from just the homogeneous polymer, and the polyester scrim reinforcement itself is treated to prevent water wicking along the fibres. With all these precautions the membrane does not allow water absorption and therefore is not damaged by freezing during winter months.

This important refurbishment contract was undertaken by Avon Sheeting and Cladding Ltd. and has developed into an ongoing project with further work in the pipeline.

